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ABSTRACT

These materials are intended to be used with the computer program "Where in the U.S.A. is Carmen Sandiego?" to help students learn about U.S. geography and databases. The activities described involve students pursuing criminals throughout the United States, following clues about the location, and identifying the criminals. The activities include the use of problem-solving and critical thinking skills. These materials feature an overview, goals and objectives, course outline, resource materials, bibliography, sample worksheets, sample maps, and sample student work. (DB)

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CARMEN SANDIEGO IS IN YOUR CLASSROO

BY

VALEN MAYLAND

★ An Idea Packet ★

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IMPACT II ★ IDEA CATALOG 1991-1992

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Carmen Sandiego is in your Classroom

For information concerning IMPACT II program opportunities, including interschool visits, staff development workshops and Adapter and Developer grants, please contact:

Dade Public Education Fund
21 S. E. 1st Ave. , Suite 701
Miami, Florida 33131
(305) 377-3733

You will find formal Adapter grant applications in the center of the Idea Catalog. Use the Adapter grant application, if you are interested in applying for a $200 grant to adapt this program.

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Overview

The computer program *Where in the U.S.A. is Carmen Sandiego?* ™can be the beginning, middle or ending of a variety skills and objectives in your classroom. You are limited only by your imagination!

The use of computers and a software package helps prepare the students for the age of technology that is sweeping the nation. This can be accomplished in an entertaining and educational manner through the use of computers in all subject areas. There are a multitude of packages that can be adapted across curriculum areas.

This unit focuses on using the program as a motivating instructional tool that reinforces information about the United States. In the computer classroom the program reinforces the use and purpose of data bases. The students had spent sometime developing data bases in various topic areas, famous sports heroes, Presidents of the United States, the United States, and their own personal address file. The state data base developed from the Carmen Sandiego game include facts about the states, the geographical sectioning of the states and the location of capitals and key cities. The criminals are also part of a data base, they include Gypsy Rose Lasagna, Polly Esther Fabrique, Venus H. Pencil, and 13 others. The students must deduce who committed the crime. The program involves problem-solving and higher order thinking skills. Additionally it encourages the students to use reference and research materials.

Students will pursue criminals throughout the United States, following clues about the location and the identity of the criminals. They formulate their search and must include issuing a warrant for the correct criminal. They will use those problem-solving and critical thinking skills to apprehend the criminal in an entertaining manner.

The program allows for multi stations with appropriate number of software or might be used with one program and one computer as a class activity. This unit is planned for a 5 to 7 day unit, though my students insist they need more time to play!

Goals and Objectives:

1. To reinforce the geographical locations of the 50 states and their capitals.
2. To identify map symbols.
3. To trace routes on maps.
4. To use reference materials.
5. To collect data from various sources.
6. To recall and use information.
7. To analyze and evaluate data.
8. To use data to make decisions and solve problems.
9. To use critical thinking skills to plan detective strategies.
10. To take notes.
11. To review purpose and use of data base.
12. To work in cooperative groups.
13. To increase vocabulary.
14. To identify supporting details.
15. To predict outcomes based on prior knowledge.

On the Sleuth's Trail

Brief Course Outline

Activities:
Visit Media Center to learn how to use the almanac, the atlas, the geographical dictionary and Fodors Guide.

Reinforce almanac skills with filmstrip.

Read and review data base of criminals of Carmen Sandiego™, to infuse clues to be used during the games.

Distribute and discuss how to work on worksheet/map package (how search proceeds, new vocabulary, mark the states they visit on maps as investigations proceed)

Discussion and demonstration of how to use the reference table. Table includes almanacs, geographical dictionary, dictionary, atlas, large USA map, and Fodors Guide.

Classroom demonstration of procedures for playing and scoring during the Carmen Sandiego game.

Assign detective teams and responsibilities. Team decides their team name.

Play the game, catch the criminals, and record the data.

Recognition of each class team winner.

Completion of worksheet/map packages.

Resource Materials List

Speakers:

Media Specialist provided almanac filmstrip and class discussion on use of reference materials.

Audiovisual:

Almanac Filmstrip
Carmen Sandiego video(available from Broderbund Software)

Equipment/Material:

Hardware
1 disk for 1 computer can be used as a class activity but this activity was with 8 disks and 8 computers.

Software
Where in the USA is Carmen Sandiego? ™ available in lab paks (5) which provide teacher manual. Lab pak $87.95 (each disk is 43.95)

Reference Books
Borrowed from Media Center (see bibliography)

Supplemental materials:

Carmen Day Kit (stickers, poster etc) from Broderbund is $10.00

Bibliography

Reference Books for use in the classroom during unit.
These books were checked out from the school media center, a minimum of 2 copies of each.

Fodor's USA
The World Almanac and Book of Facts
Webster's Geographical Dictionary
World Atlas

"How to use an Almanac" filmstrip
Education System Inc. 1983
Newspaper Enterprise Associates
(also checked out from media center)

Recommended Resources

Broderbund Software Inc., Where in the U.S.A. is Carmen Sandiego ™ Jab pak, 17 Paul Drive, San Rafael, California, 94903-2102, 1987

Miller, Samuel, and Michael Caley, Where in the U.S.A. is Carmen Sandiego™, Teacher's Guide, San Rafael, California, Broderbund Software, 1987

Slavin, Robert, Ed. Learning to Cooperate, Cooperating to Learn. N.Y.: Plenum Press, 1985.

Slavin, Robert, Cooperative Learning, New York, Longman, 1983

Carmen Sandiego
State Check Off List

Captains:

As each state is profiled on the Data Base Form Part 1, check it off below so your group members can keep track. Put the initials of the person who does each state next to the checkmark.

_____ Alabama
_____ Alaska
_____ Arizona
_____ Arkansas
_____ California
_____ Colorado
_____ Connecticut
_____ Delaware
_____ Florida
_____ Georgia
_____ Hawaii
_____ Idaho
_____ Illinois
_____ Indiana
_____ Kansas
_____ Kentucky
_____ Louisiana
_____ Maine
_____ Maryland
_____ Massachusetts
_____ Michigan
_____ Minnesota
_____ Mississippi
_____ Missouri
_____ Montana
_____ Nebraska
_____ Nevada
_____ New Hampshire
_____ New Jersey
_____ New Mexico
_____ New York
_____ North Carolina
_____ North Dakota
_____ Ohio
_____ Oklahoma
_____ Oregon
_____ Pennsylvania
_____ Rhode Island
_____ South Carolina
_____ South Dakota
_____ Tennessee
_____ Texas
_____ Utah
_____ Vermont
_____ Virginia
_____ Washington
_____ West Virginia
_____ Wyoming

A

Player or Team: _____

Clue Checklist

As you play the game, circle each clue you uncover. When you're satisfied that you have enough clues, Visit Interpol and use the crime computer to obtain a warrant.

SEX	HAIR	FOOD	SPORT	HOBBY	MUSIC
Male	Blond	Seafood	Baseball	Gambling	Classical
Female	Red	Creole	Football	Spelunking	Country
	Brown	Tex/Mex	Basketball	Fortunes	Rock
	Black	Southern	Hockey	Auto Repair	Opera

Predicted Suspect: _____

Actual Criminal: _____ **Caught? YES NO**

SEX	HAIR	FOOD	SPORT	HOBBY	MUSIC
Male	Blond	Seafood	Baseball	Gambling	Classical
Female	Red	Creole	Football	Spelunking	Country
	Brown	Tex/Mex	Basketball	Fortunes	Rock
	Black	Southern	Hockey	Auto Repair	Opera

Predicted Suspect: _____

Actual Criminal: _____ **Caught? YES NO**

SEX	HAIR	FOOD	SPORT	HOBBY	MUSIC
Male	Blond	Seafood	Baseball	Gambling	Classical
Female	Red	Creole	Football	Spelunking	Country
	Brown	Tex/Mex	Basketball	Fortunes	Rock
	Black	Southern	Hockey	Auto Repair	Opera

Predicted Suspect: _____

Actual Criminal: _____ **Caught? YES NO**

A2

B1

12

Color each state of one investigation
as you travel.
Name each state

13

Geography, databases taught with Carmen Sandiego

Students using maps and a database of criminals have found one of Carmen's thieves. by Valen Mayland, Miami Lakes Middle School

A week of playing *Where in the U.S.A. is Carmen Sandiego?* was a great way to illustrate the use of data bases as well as sneak in some geography lessons. The Computer Applications students at Miami Lakes Middle School competed as teams having fun as well as learning.

After intensive study of *AppleWorks*, playing *Carmen Sandiego* was a treat. Each class was divided into teams with 4 to 5 students per team. (The lab pack we had purchased had five disks; we borrowed another from the library.) We set up a reference table with an atlas, almanacs, geographical dictionaries, a dictionary of words, and *Fodor's USA*, which comes with the software. All were used extensively by the students.

Day 1: Using *AppleWorks*, students created a database on the criminals to familiarize themselves with the traits of each one and review creating a database. The information, obtained from an appendix in the *Teacher's Guide*, also helped them learn some of the program's words that were new to them.

Day 2: I demonstrated on a big screen monitor how to play the game, teams were assigned, and we discussed how to use the reference table.

Days 3, 4, 5: Teams accumulated scores by catching criminals. Scores were automatically saved by the program and accumulated by giving each team the same disk each day.

During the competition, students had a package of worksheets to complete; these came from the teacher's guide. They included a report for each criminal investigation, a crossword puzzle, and two maps on which to plot and color cities and states visited during each investigation.

Day 5: Each class ended competition with an award ceremony with each member of the winning team receiving a "Computer Whiz Kid" certificate with a free game day. On such a day, they can choose to play any of the educational games, such as *Oregon Trail*, that we have available.

Our exciting week, with fun and learning for all, was a great way to complete a Computer Applications unit.

Product:
Where in the U.S.A. is Carmen Sandiego?, gr. 5-up, $44.95. Broderbund Software, 17 Paul Dr., San Rafael, CA 94903, 800-521-6263.

Computer Contacts

Computer education in general	Rita Oates Supervisor 305-376-1915
Technical assistance, hardware purchases	Bruce Raskin 305-376-1917 Bill Fleischman 305-376-1916
Curriculum, computer literacy materials, MBCC products	Joanne Urrutia 305-376-1975
Computer lab visits, educational software, books	Molly Weeks 305-376-1973
Chapter 1 projects, materials, preview days	John Lavind Amy Simpson 305-376-1395
Technology in the science curriculum	Bill Fleischman
Computer contests	Bill Fleischman Molly Weeks
Software catalogs, order forms, curriculum guides, etc.	Norma Alcaro 305-376-1915

Telephone prefixes will be changed over the summer, probably to 995 numbers with the last four digits unchanged. Effective July 27, call 995-1000 for information.

Educators win national awards

Dr. Rita Oates has been chosen a Distinguished Achievement Award winner in *Electronic Learning*'s 1989 "Educator of the Year" awards program.

Nominated by the staff of Computer Education and Technology, Dr. Oates was selected for her outstanding leadership in advancing education through technology. A brief summary of her achievements and her picture will appear in the September 1989 issue of the magazine.

Another Dade winner is Mark Hill, who manages the music lab at New World School of the Arts. Mr. Hill is a Certificate of Merit winner for his success in using computers and synthesizers to enhance music instruction. A major achievement is keying software to the music theory instructional program and using this to prescribe computer programs matched to individual needs.

Dr. Oates and Mr. Hill will receive their awards June 20 in Boston at the National Educational Computing Conference.

Electronic Learning, published by Scholastic, presents news, applications, and reviews on technology in education. A subscription costs $19.95 per year from Electornic Learning, P.O. Box 2041, Mahopec, NY 10541.

Discounted computers

(Continued from page 8)
Mb fixed disk drive, and *Windows/386*. The discounted cost is $4,449; list price is $8,412.

Dealers:
Take your order form to one of the following dealers, participating as Certified Education Specialists, in Dade and Broward counties: AC3 Computing Products Center, Caber Systems, Computerbanc, Entré Computer Center, Inacomp Computer Centers, Microline Computer Center, Nynex Business Centers, and Microage Computer Store.

This software makes geography fun again

New York Times News Service

One of the classics in educational software is *Where in the World Is Carmen Sandiego?* It has since been followed by *Where in the USA Is Carmen Sandiego* and *Where in Europe Is Carmen Sandiego?*

Carmen Sandiego, in this software program, is a former secret agent gone bad. She is now the ringleader of a gang of eccentric provocateurs who roam the globe causing trouble, usually by stealing a treasure of local significance.

The player assumes the role of Interpol detective, tracking Sandiego or her henchmen from city to city and country to country on the basis of clues provided by witnesses.

"He drove away in a limousine flying a red and white flag," one witness might say; or, "She changed all of her money for zlotys"; or, "He asked about books on shipbuilding."

A check at the airport or rail station reveals that the thief could have departed that day for any of three countries. The player looks in a standard almanac under "Flags" and finds that one of the three countries has such a red and white banner — Poland.

Looking under "Poland" in the almanac reveals the zloty is the local currency and shipbuilding is the primary industry.

The detective goes in pursuit and is greeted upon arrival in the new country with a short description and history of the land, overlaid on a scenic view. Then more witnesses appear to give clues to the thief's identity and next destination.

In tracking the thief and gathering enough information for an arrest warrant, which usually takes the detective to at least a half-dozen new locales, the player develops research and reasoning skills and is gently guided to a greater understanding of geography, customs, governments, histories and economies.

It is widely held that American students have a poorer grasp of geography than their counterparts in other countries. Why in the world doesn't everyone use Carmen Sandiego to remedy that?

The program is recommended for students in grades 4 to 9. It is available for IBM PC and compatible computers; Apple II, IIgs and Macintoshes; and Commodore 64 and 128 systems.

It costs $39.95 to $49.95 for home versions, depending on the type of computer; $49.95 to $59.95 for a teacher's version; and $89.95 to $119.95 for a Lab Pack, which includes a teacher's guide and four more disks.

To order, write or call Broderbund, 17 Paul Dr., San Rafael, Calif. 94903; (415) 492-3200.

■

Physics? Calculus? Geometry? A fine way to explore these disciplines is through a series of programs from Sensei Software, distributed by Broderbund. Used as a supplement to classroom exercises, the computer-based interactive experiments enable students to do hands-on tests of the major concepts at their own pace.

The computer makes calculus almost fun, or at least relatively painless, which is hardly the way most adults remember it from high school. Geometry and physics, which seemed fun at the time, are even more enjoyable now with the computer transformed into a magic blackboard.

All these products require a Macintosh, except Geometry, which comes in an Apple IIgs version as well. Price is $99.95 each for the single-user version ($79.95 for the IIgs version of Geometry). A teacher's version costs $109.95 ($89.95 IIgs), and a Lab Pack costs $219.95 ($179.95 IIgs) per program.

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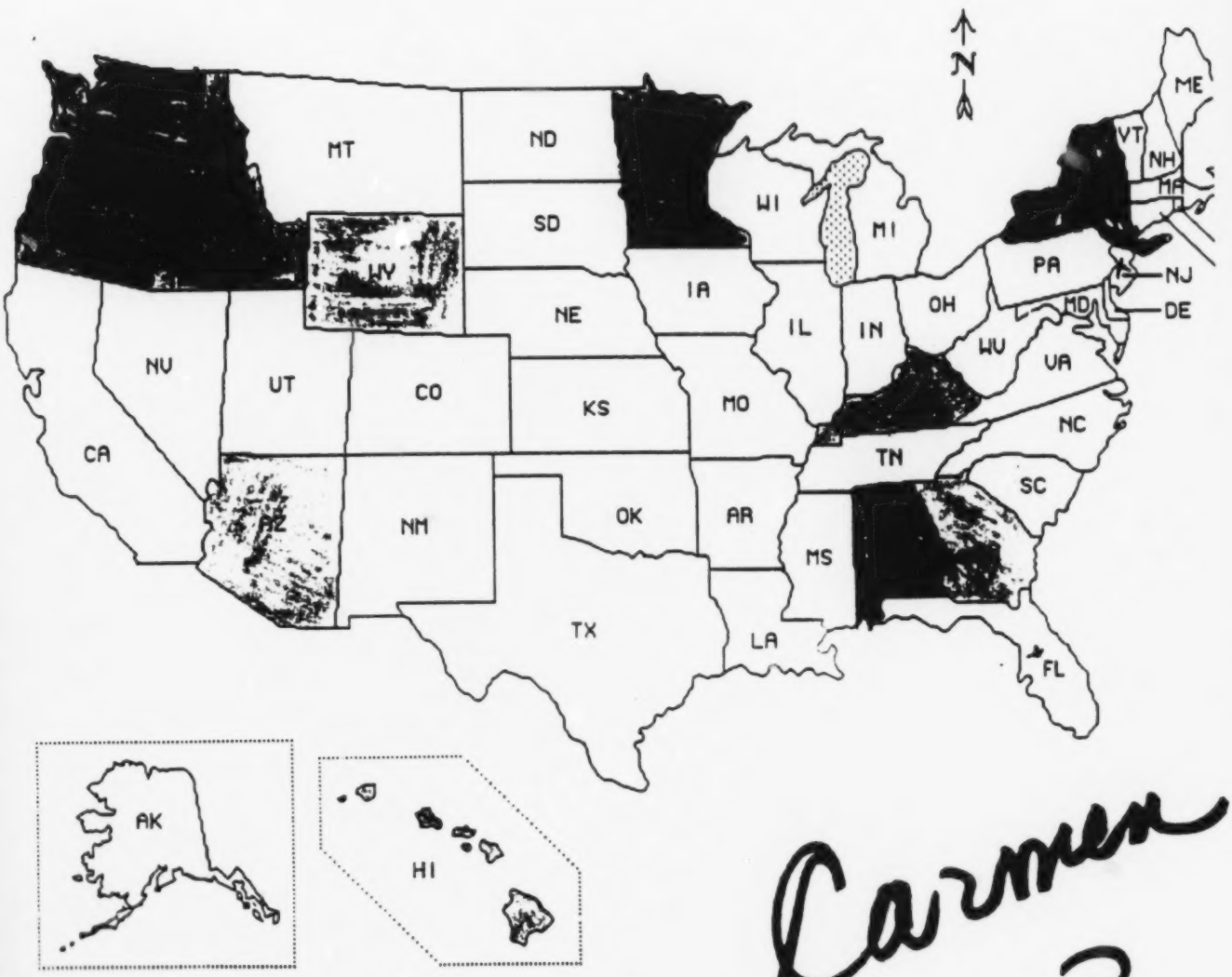
USA Map
ClickArt™ Publications



Where is Carmen Sandiego?

Player or Team: THEF

Clue Checklist

As you play the game, circle each clue you uncover. When you're satisfied that you have enough clues, Visit Interpol and use the crime computer to obtain a warrant.

SEX	HAIR	FOOD	SPORT	HOBBY	MUSIC
Male	Blond	Seafood	Baseball	Gambling	Classical
Female	Red	Creole	Football	Spelunking	Country
	Brown	Tex/Mex	Basketball	Fortunes	Rock
	Black	Southern	Hockey	Auto Repair	Opera

Predicted Suspect: Vanderbilt

Actual Criminal: " **Caught?** YES NO

SEX	HAIR	FOOD	SPORT	HOBBY	MUSIC
Male	Blond	Seafood	Baseball	Gambling	Classical
Female	Red	Creole	Football	Spelunking	Country
	Brown	Tex/Mex	Basketball	Fortunes	Rock
	Black	Southern	Hockey	Auto Repair	Opera

Predicted Suspect: Alexander

Actual Criminal: _____ **Caught?** YES NO

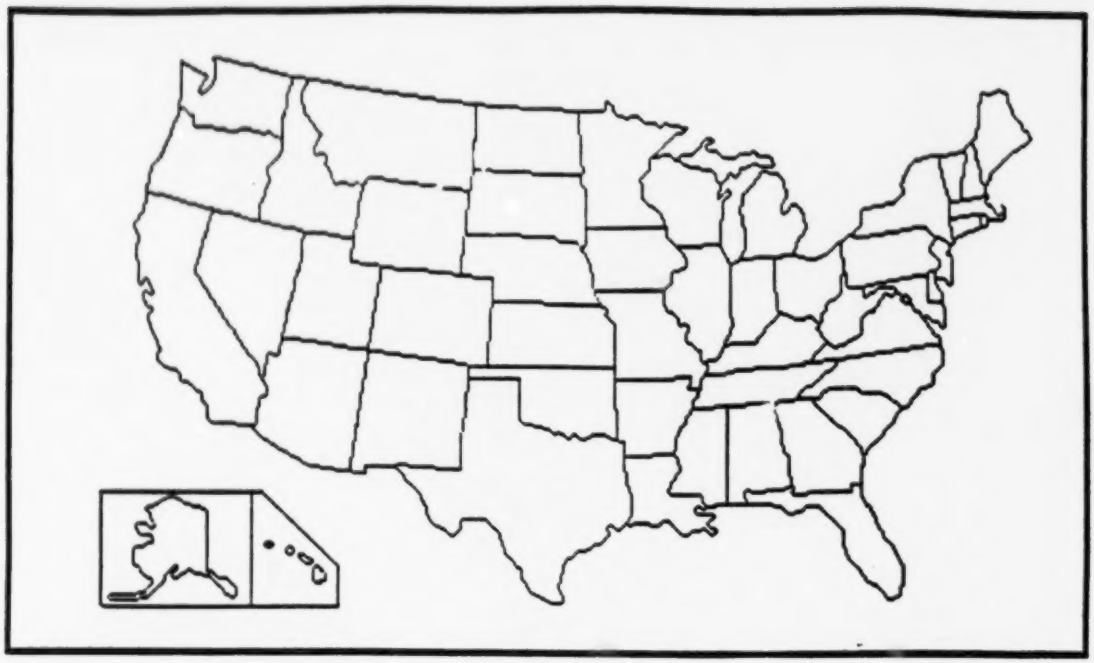
SEX	HAIR	FOOD	SPORT	HOBBY	MUSIC
Male	Blond	Seafood	Baseball	Gambling	Classical
Female	Red	Creole	Football	Spelunking	Country
	Brown	Tex/Mex	Basketball	Fortunes	Rock
	Black	Southern	Hockey	Auto Repair	Opera

Predicted Suspect: Vanderbilt

Actual Criminal: " **Caught?** YES NO

Player or Team: THEE.

Map Sheet 1



Plot every city you visit during your investigation.

List each state you visit during the investigation and its capital.

State	Capital
Oregon	Portland
IDAHO	
Arizona	
Florida	Tallahasee
Washington	D.C.
Alabama	
NewYork	

E3

18

Color each state of one investigation as you travel.
Name each state

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